

Use Attainability Analysis

for

WBID 2504 Spring Creek

Submitted by

Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources
Water Protection Program

Date Received: July 18, 2005

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

| | |
|---|-------------|
| Water Body Name (from USGS 7.5' quad): Spring Creek | |
| 8-digit HUC: 11010006 | RECEIVED |
| Missouri WBID #: 2504 Site 1-2 | JUL 18 2005 |
| County: Howell | NOV 2004 |
| Upstream Legal Description: NE1/4 NW1/4 Sec.1 T.23N., R.10W. | |
| Downstream Legal Description: SE1/4 SE1/4 Sec.4 T.23N., R.10W. | |
| Upstream Coordinates: N. 36.69937 W. 92.01530 | |
| Downstream Coordinates: N. 36.69188 W. 92.06490 | |
| Discharger Facility Name(s): NA | |
| Discharger Permit Number(s): NA | |
| Number of Sites Evaluated: 3 | |
| Name of Surveyor and Telephone Number: Dennis M. Meinert (314) 416-2960 | |
| Organization: Department of Natural Resources, SWCP | |
| Position: Soil Scientist | |

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Dennis M. Meinert

Date: 06/20/05

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | | |
|---|---|---|--------|
| Missouri WBID #: WB2504-01 | Site Location Description: NE1/4 NW1/4 Sec.1 T.23N., R.10W. | | |
| Site GPS Coordinates: N. 36.69937 W. 92.01530 | | | |
| Date & Time: 6/20/05 3:40 pm | | Facility Name: NA | |
| Personnel: Dennis Meinert, Keith Knelle | | Permit Number: NA | |
| Current Weather Conditions: Partly cloudy | | Weather Conditions for Past 7 days: Scattered showers | |
| Photo Ids: Upstream: WBU2504-01 | | Downstream: WBD2504-01 | Other: |

Uses Observed*:

| | | | | |
|--|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin Diving | <input type="checkbox"/> Scuba diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input type="checkbox"/> Wading | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |
| Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.) | | | | |

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|--|---|---|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input checked="" type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input type="checkbox"/> Other: | |

Evidence of Human Use*:

| | | | | |
|---|--|--|---|--|
| <input type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swing | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input checked="" type="checkbox"/> Other: None | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two - WBID #: WB2504-01

Stream Morphology:

Upstream View Physical Dimensions:

| | | | | |
|--------|-----------------|------------------|----------------------|-----------------------------------|
| Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Pool | Width (ft): 40' | Length (ft): 97' | Avg. Depth (ft): 18" | Max. Depth (ft): 22" |
| Flow | Present? | Yes | No | Estimated (ft ³ /sec): |

Downstream View Physical Dimensions:

| | | | | |
|--------|----------------|-------------------|---------------------|-----------------------------------|
| Riffle | Width (ft): 5' | Length (ft): 125' | Avg. Depth (ft): 4" | Max. Depth (ft): 8" |
| Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Flow | Present? | Yes | No | Estimated (ft ³ /sec): |

Substrate*: (These values should add up to 100%.)

| | | | | | |
|------------|------------|--------|--------|------------|------------|
| 30% Cobble | 65% Gravel | % Sand | % Silt | % Mud/Clay | 5% Bedrock |
|------------|------------|--------|--------|------------|------------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

5% floating algae. Aquatic plants growing on stream edge.

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|--------|--------|----------------|-------|--------|
| Odor: | Sewage | Musky | Chemical | None | Other: |
| Color: | Clear | Green | Gray | Milky | Other: |
| Bottom Deposit: | Sludge | Solids | Fine sediments | None | Other: |
| Surface Deposit: | Oil | Scum | Foam | None | Other: |

Comments: Water begins flowing 1/2 way through riffle. Minnows and crayfish observed in pool. Some trash.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed:  Date: 06/20/05

Organization: Department of Natural Resources SWCP

Position: Soil Scientist

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | | |
|---|--|---|--|
| Missouri WBID #: WB2504-02 | Site Location Description: NW1/4 NE1/4 SEC.2 T.23N. R.10W. | | |
| Site GPS Coordinates: N. 36.70113 W. 92.03108 | | | |
| Date & Time: 6/20/05 3:50 pm | | Facility Name: NA | |
| Personnel: Keith Knelle, Dennis Meinert | | Permit Number: NA | |
| Current Weather Conditions: Partly cloudy | | Weather Conditions for Past 7 days: Scattered showers | |
| Photo Ids: Upstream: WBU2504-02 | Downstream: WBD2504-02 | Other: WBE2504-02 | |

Uses Observed*:

| | | | | |
|--|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin Diving | <input type="checkbox"/> Scuba diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input type="checkbox"/> Wading | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |
| Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.) | | | | |

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|--------------------------------------|---|---|---|
| City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input checked="" type="checkbox"/> Other: Private property, no water | |

Evidence of Human Use*:

| | | | | |
|---|--|--|---|--|
| <input type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swing | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input checked="" type="checkbox"/> Other: None | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

WBID 2504 – Downstream #1



WBID 2504 – Upstream #1



Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two - WBID #: WB2504-02

Stream Morphology:

Upstream View Physical Dimensions: NO WATER OBSERVED

| | | | | |
|--------|-------------|--------------|------------------|-----------------------------------|
| Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Flow | Present? | Yes | No | Estimated (ft ³ /sec): |

Downstream View Physical Dimensions: NO WATER OBSERVED

| | | | | |
|--------|-------------|--------------|------------------|-----------------------------------|
| Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Flow | Present? | Yes | No | Estimated (ft ³ /sec): |

Substrate*: (These values should add up to 100%.)

| | | | | | |
|------------|------------|---------|--------|-------------|-----------|
| 40% Cobble | 50% Gravel | 5% Sand | % Silt | 5% Mud/Clay | % Bedrock |
|------------|------------|---------|--------|-------------|-----------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

None


Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|--------|--------|----------------|-------|-------------|
| Odor: | Sewage | Musky | Chemical | None | Other: |
| Color: | Clear | Green | Gray | Milky | Other: None |
| Bottom Deposit: | Sludge | Solids | Fine sediments | None | Other: |
| Surface Deposit: | Oil | Scum | Foam | None | Other: |

Comments: Some gravel removal.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: 

Date: 06/20/05

Organization: Department of Natural Resources SWCP

Position: Soil Scientist

WBID 2504 – Downstream #2



WBID 2504 – Upstream #2



Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | | |
|---|---|---|--|
| Missouri WBID #: WB2504-03 | Site Location Description: SE1/4 SE1/4 Sec.4 T.23N., R.10W. | | |
| Site GPS Coordinates: N. 36.69188 W. 92.06490 | | | |
| Date & Time: 6/20/05 4:05 pm | | Facility Name: NA | |
| Personnel: Dennis Meinert, Keith Knelle | | Permit Number: NA | |
| Current Weather Conditions: Partly cloudy | | Weather Conditions for Past 7 days: Scattered showers | |
| Photo Ids: Upstream: WBU2504-03 | Downstream: WBD2504-03 | Other: | |

Uses Observed*:

| | | | | |
|--|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin Diving | <input type="checkbox"/> Scuba diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input type="checkbox"/> Wading | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |
| Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.) | | | | |

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|--|--------------------------------------|---|---|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input checked="" type="checkbox"/> Other: Private property, no water | |

Evidence of Human Use*:

| | | | | |
|---|--|--|---|--|
| <input type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swing | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input checked="" type="checkbox"/> Other: None | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two - WBID #: WB2504-03

Stream Morphology:

Upstream View Physical Dimensions: NO WATER OBSERVED

| | | | | |
|--------|-------------|--------------|------------------|-----------------------------------|
| Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Flow | Present? | Yes | No | Estimated (ft ³ /sec): |

Downstream View Physical Dimensions: NO WATER OBSERVED

| | | | | |
|--------|-------------|--------------|------------------|-----------------------------------|
| Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Flow | Present? | Yes | No | Estimated (ft ³ /sec): |

Substrate*: (These values should add up to 100%.)

| | | | | | |
|------------|------------|--------|--------|------------|-----------|
| 60% Cobble | 40% Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|------------|------------|--------|--------|------------|-----------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

Non-aquatic vegetation growing in streambed.

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|--------|--------|----------------|-------|-------------|
| Odor: | Sewage | Musky | Chemical | None | Other: |
| Color: | Clear | Green | Gray | Milky | Other: None |
| Bottom Deposit: | Sludge | Solids | Fine sediments | None | Other: |
| Surface Deposit: | Oil | Scum | Foam | None | Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed:  Date: 06/20/05

Organization: Department of Natural Resources SWCP

Position: Soil Scientist

WBID 2504 – Downstream #3



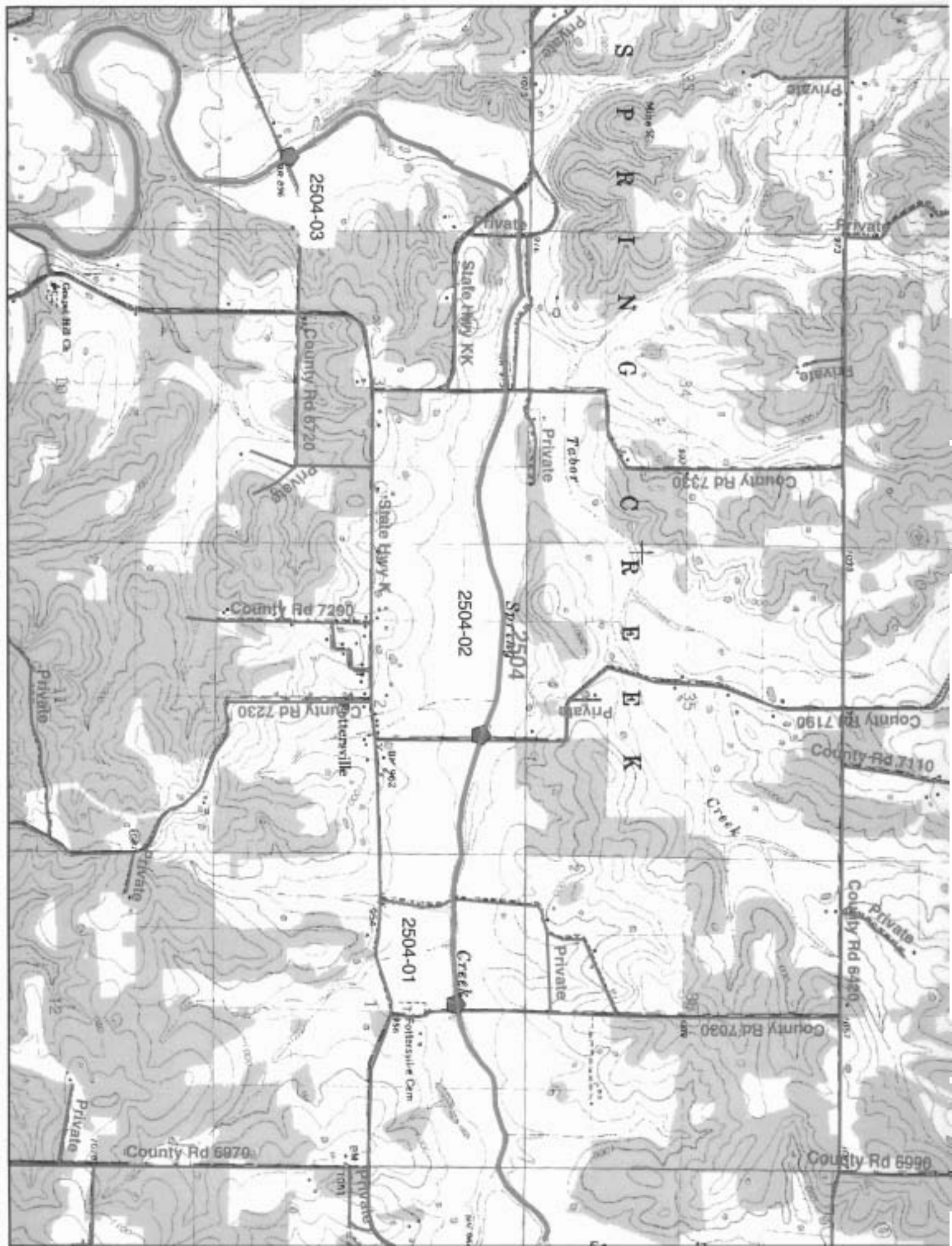
WBID 2504 – Upstream #3



STREAM NAMESpring Creek

| PHOTO | WBID | UP | DOWN | USE | COMMENTS |
|-------|------|----|------|----------------|-----------------------------------|
| 1 | 2504 | X | | No use | Pool had no water leaving |
| 2 | 2504 | | X | No use | Riffle began flowing 1/2 way down |
| 3 | 2504 | X | | No use | No water |
| 4 | 2504 | | X | No use | No water |
| 5 | 2504 | | | Gravel removal | |
| 6 | 2504 | X | | No use | No water |
| 7 | 2504 | | X | No use | No water |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| 31 | | | | | |
| 32 | | | | | |
| 33 | | | | | |
| 34 | | | | | |
| 35 | | | | | |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |





Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

| |
|---|
| Water Body Name (from USGS 7.5' quad): Spring Creek |
| 8-digit HUC: 11010006 |
| Missouri WBID #: 2504 <i>21000006</i> |
| County: Howell |
| Upstream Legal Description: NW1/4 SW1/4 Sec.10 T.23N., R.10W. |
| Downstream Legal Description: NE1/4 NE1/4 Sec.17 T.23N., R.10W. |
| Upstream Coordinates: N. 36.67910 W. 92.06108 |
| Downstream Coordinates: N. 36.67119 W. 92.08266 |
| Discharger Facility Name(s): NA |
| Discharger Permit Number(s): NA |
| Number of Sites Evaluated: 3 |
| Name of Surveyor and Telephone Number: Dennis M. Meinert (314) 416-2960 |
| Organization: Department of Natural Resources, SWCP |
| Position: Soil Scientist |

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: *Dennis M. Meinert*

Date: 06/20/05__

September 29, 2004

Page 1

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | | |
|---|--|---|--|
| Missouri WBID #: WB2504-04 | Site Location Description: NW1/4 SW1/4 Sec.10 T.23N., R.10W. | | |
| Site GPS Coordinates: N. 36.67910 W. 92.06108 | | | |
| Date & Time: 6/21/05 7:50 am | | Facility Name: NA | |
| Personnel: Dennis Meinert, Mike Wyatt | | Permit Number: NA | |
| Current Weather Conditions: Clear, sunny | | Weather Conditions for Past 7 days: Scattered showers | |
| Photo Ids: Upstream: WBU2504-04 | Downstream: WBD2504-04 | Other: WBE2504-04 | |

Uses Observed*:

| | | | | |
|--|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin Diving | <input type="checkbox"/> Scuba diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input type="checkbox"/> Wading | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |
| Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.) | | | | |
| | | | | |

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|--|--------------------------------------|---|---|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input checked="" type="checkbox"/> Other: Private property | |

Evidence of Human Use*:

| | | | | |
|--------------------------------------|--|--|---|---|
| <input type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input checked="" type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swing | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input type="checkbox"/> Other: None | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two - WBID #: WBD2504-04

Stream Morphology:

Upstream View Physical Dimensions: NO WATER OBSERVED

| | | | | |
|--------|-------------|--------------|------------------|-----------------------------------|
| Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Flow | Present? | Yes | No | Estimated (ft ³ /sec): |

Downstream View Physical Dimensions:

| | | | | |
|--------|-----------------|-------------------|---------------------|-----------------------------------|
| Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Pool | Width (ft): 30' | Length (ft): 157' | Avg. Depth (ft): 8" | Max. Depth (ft): 1' |
| Flow | Present? | Yes | No | Estimated (ft ³ /sec): |

Substrate*: (These values should add up to 100%.)

| | | | | | |
|-----------|------------|----------|--------|------------|------------|
| 5% Cobble | 75% Gravel | 20% Sand | % Silt | % Mud/Clay | 5% Bedrock |
|-----------|------------|----------|--------|------------|------------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

Small amount of algae along edge of pool.

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|--------|--------|----------------|-------|--------|
| Odor: | Sewage | Musky | Chemical | None | Other: |
| Color: | Clear | Green | Gray | Milky | Other: |
| Bottom Deposit: | Sludge | Solids | Fine sediments | None | Other: |
| Surface Deposit: | Oil | Scum | Foam | None | Other: |

Comments: Minnows observed.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Dennis M. Meinert Date: 06/21/05 _____

Organization: Department of Natural Resources SWCP

Position: Soil Scientist _____

WBID 2504 – Downstream #4



WBID 2504 – Upstream #4



Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | | |
|---|--|---|--|
| Missouri WBID #: WB2504-05 | Site Location Description: SW1/4 SE1/4 SEC.9 T.23N. R.10W. | | |
| Site GPS Coordinates: N. 36.67611 W. 92.06617 | | | |
| Date & Time: 6/21/05 8:10 am | | Facility Name: NA | |
| Personnel: Mike Wyatt, Dennis Meinert | | Permit Number: NA | |
| Current Weather Conditions: Sunny, hazy | | Weather Conditions for Past 7 days: Scattered showers | |
| Photo Ids: Upstream: WBU2504-05 | Downstream: WBD2504-05 | Other: | |

Uses Observed*:

| | | | | |
|--|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin Diving | <input type="checkbox"/> Scuba diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input type="checkbox"/> Wading | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |
| Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.) | | | | |

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|--|--------------------------------------|---|---|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input checked="" type="checkbox"/> Other: Private property, no water | |

Evidence of Human Use*:

| | | | | |
|---|--|--|---|--|
| <input type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swing | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input checked="" type="checkbox"/> Other: None | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two - WBID #: WB2504-05

Stream Morphology:

Upstream View Physical Dimensions: NO WATER OBSERVED

| | | | | |
|--------|-------------|--------------|------------------|-----------------------------------|
| Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Flow | Present? | Yes | No | Estimated (ft ³ /sec): |

Downstream View Physical Dimensions: NO WATER OBSERVED

| | | | | |
|--------|-------------|--------------|------------------|-----------------------------------|
| Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Flow | Present? | Yes | No | Estimated (ft ³ /sec): |

Substrate*: (These values should add up to 100%.)

| | | | | | |
|-----------|------------|----------|---------|------------|-----------|
| 1% Cobble | 60% Gravel | 34% Sand | 5% Silt | % Mud/Clay | % Bedrock |
|-----------|------------|----------|---------|------------|-----------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

Non-aquatic vegetation growing in streambed.

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|--------|--------|----------------|-------|-------------|
| Odor: | Sewage | Musky | Chemical | None | Other: |
| Color: | Clear | Green | Gray | Milky | Other: None |
| Bottom Deposit: | Sludge | Solids | Fine sediments | None | Other: |
| Surface Deposit: | Oil | Scum | Foam | None | Other: |

Comments:

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: *Dennis M. Meinert*

Date: 06/21/05

Organization: Department of Natural Resources SWCP

Position: Soil Scientist

WBID 2504 – Downstream #5



WBID 2504 – Upstream #5



Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | | |
|---|--|---|--|
| Missouri WBID #: WB2504-06 | Site Location Description: NE1/4 NE1/4 Sec.17 T.23N., R.10W. | | |
| Site GPS Coordinates: N. 36.67119 W. 92.08266 | | | |
| Date & Time: 6/21/05 8:30 am | | Facility Name: NA | |
| Personnel: Dennis Meinert, Mike Wyatt | | Permit Number: NA | |
| Current Weather Conditions: Sunny, hazy | | Weather Conditions for Past 7 days: Scattered showers | |
| Photo Ids: Upstream: WBU2504-06 | Downstream: WBD2504-06 | Other: WBE2504-06 | |

Uses Observed*:

| | | | | |
|--|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin Diving | <input type="checkbox"/> Scuba diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input type="checkbox"/> Wading | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |
| Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.) | | | | |

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|--|--------------------------------------|---|---|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input checked="" type="checkbox"/> Other: Private property, no water | |

Evidence of Human Use*:

| | | | | |
|-------------------------------------|--|--|---|---|
| <input type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input checked="" type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swing | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input type="checkbox"/> Other: | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two - WBID #: WB2504-06

Stream Morphology:

Upstream View Physical Dimensions: NO WATER OBSERVED

| | | | | |
|--------|-------------|--------------|------------------|-----------------------------------|
| Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Flow | Present? | Yes | No | Estimated (ft ³ /sec): |

Downstream View Physical Dimensions: NO WATER OBSERVED

| | | | | |
|--------|-------------|--------------|------------------|-----------------------------------|
| Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| Flow | Present? | Yes | No | Estimated (ft ³ /sec): |

Substrate*: (These values should add up to 100%.)

| | | | | | |
|-----------|------------|----------|---------|------------|-----------|
| 5% Cobble | 70% Gravel | 20% Sand | 5% Silt | % Mud/Clay | % Bedrock |
|-----------|------------|----------|---------|------------|-----------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

Non-aquatic vegetation growing in streambed.

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|--------|--------|----------------|-------|-------------|
| Odor: | Sewage | Musky | Chemical | None | Other: |
| Color: | Clear | Green | Gray | Milky | Other: None |
| Bottom Deposit: | Sludge | Solids | Fine sediments | None | Other: |
| Surface Deposit: | Oil | Scum | Foam | None | Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Dennis M. Meiner

Date: 06/21/05

Organization: Department of Natural Resources SWCP

Position: Soil Scientist

WBID 2504 – Downstream #6



WBID 2504 – Upstream #6



STREAM NAMESpring Creek

| PHOTO | WBID | UP | DOWN | USE | COMMENTS |
|-------|------|----|------|---------|------------|
| 1 | 2504 | X | | ATV use | No water |
| 2 | 2504 | | X | ATV use | Lone pool |
| 3 | 2504 | X | | ATV use | ATV tracks |
| 4 | 2504 | X | | No use | No water |
| 5 | 2504 | | X | No use | No water |
| 6 | 2504 | X | | No use | No water |
| 7 | 2504 | | X | ATV use | No water |
| 8 | 2504 | | X | ATV use | ATV tracks |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| 31 | | | | | |
| 32 | | | | | |
| 33 | | | | | |
| 34 | | | | | |
| 35 | | | | | |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |



